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Forest Tree Production Centres In Canada - 1983

J. H. Smyth and A. J. Brownwright



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THE GREAT LAKES FOREST RESEARCH CENTRE

The Great Lakes Forest Research Centre is one of six regional establishments located across Canada and operated by the Canadian Forestry Service. The overall objective of the Service is to promote the preservation, enhancement and wise use of a healthy, attractive and bountiful forest resource and terrestrial environment for the economic and social benefit of all Canadians. The Centre pursues this objective by conducting two major programs: research and technical services and forestry development. Both programs address major problems affecting forest management and the forest environment primarily in Ontario, but because of the transprovincial nature of the forest resource, many elements of our research program are of national significance.

Forestry problems are continually assessed by the Canada-Ontario Joint Forestry Research Committee, made up chiefly of senior members of the Centre and the Ontario Ministry of Natural Resources. The Committee ensures that the research resources of both agencies are effectively transmitted to the forest managers in order to improve forest production and protection, and the quality of the environment.

Staff of the forestry development program negotiate and administer federal-provincial cost-sharing agreements with the province of Ontario, conduct economic studies, and implement job creation programs in the forest sector. Again, this requires close cooperation with the Ontario Ministry of Natural Resources and with other provincial and federal agencies concerned with the forest sector.

Close working relations are also maintained by the Centre with educational institutions specializing in forestry and the biological sciences, with the forest industry, and with other forestry organizations in the province.

The Centre recognizes that forested land must be managed in the best public interest, not only for the wood production essential to our economy but also for the recreational purposes that are so important to our social well-being. These goals must be achieved in a manner that will maintain or improve the quality of the forest environment and preserve it for generations to come.

FOREST TREE PRODUCTION CENTRES IN CANADA

1983

J.H. SMYTH and A.J. BROWNRIGHT

GREAT LAKES FOREST RESEARCH CENTRE

CANADIAN FORESTRY SERVICE

DEPARTMENT OF THE ENVIRONMENT

1984

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ABSTRACT

A total of 103 public sector, private and forest industry nurseries produced planting stock for reforestation purposes in 1983. Of these, 47 grew bare-root stock and 83 grew containerized seedlings. Planned production of bare-root and containerized stock for 1983 was 281 million and 260 million seedlings, respectively. Since 1979, bare-root production expanded by 40%, or 81 million seedlings, and containerized stock increased by 140%, or 152 million seedlings. Total production is forecasted to increase to 285 million bare-root and 271 million containerized seedlings in 1984.

RÉSUMÉ

Au total, 103 pépinières, publiques, privées ou appartenant aux industries forestières, ont produit du matériel de reboisement en 1983. De ce nombre, 47 produisaient des plants à racines nues et 83, des semis en contenant. La production prévue était de 281 millions de plants à racines nues et de 260 millions de semis en contenant en 1983. Depuis 1979, les premiers ont connu une augmentation de production de 40%, soit 81 millions de semis, tandis que les seconds, une augmentation de 140%, soit 152 millions de semis. On prévoit que la production totale augmentera jusqu'à 285 millions dans le cas des premiers et à 271 millions dans le cas des seconds, en 1984.

ACKNOWLEDGMENTS

This directory of Canada's forest tree production centres was prepared with the assistance of representatives of provincial forestry agencies, the forest industry and private sector growers across Canada. Their cooperation is greatly appreciated. Special thanks are also due to the Canadian Forestry Service regional FORSTATS representatives who initiated contact with production centre managers and compiled data for their respective regional data bases. We gratefully acknowledge permission granted by L.W. Carlson to reproduce illustrations from his 1979 report, "Guidelines for rearing conifer seedlings in the Prairie Provinces".

FOREWORD

The FORSTATS (FORestry STATisticS) program provides current statistical information on Canada's forest resources, including periodic descriptions and analyses of forest inventory and growth; losses from insects, diseases, and fire; nursery production and silvicultural practice; and social and economic conditions.

The following federal government establishments participate in the FORSTATS program: Canadian Forestry Service headquarters in Hull, P.Q., the Forestry Statistics and Systems Branch in Chalk River, Ont., the Pacific Forest Research Centre in Victoria, B.C., the Northern Forest Research Centre in Edmonton, Alta., the Great Lakes Forest Research Centre in Sault Ste. Marie, Ont., the Laurentian Forest Research Centre in Ste-Foy, P.Q., the Maritimes Forest Research Centre in Fredericton, N.B., the Newfoundland Forest Research Centre in St. John's, Nfld., the Petawawa National Forestry Institute in Chalk River, Ont., and the Forest Pest Management Institute in Sault Ste. Marie, Ont. Provincial forestry agencies, other provincial and federal agencies, and the forest industry cooperate in providing data for the program.



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Cover Photo: Swastika Provincial Tree Nursery, Ontario Ministry of Natural Resources, Swastika, Ontario.



INTRODUCTION

This report was prepared for the purpose of providing current information on forest tree production centres and planned seedling production levels in Canada for the period 1983-1986. It is intended primarily for use by nursery managers and other individuals who have a direct or indirect interest in forest tree production centres, their location, and their production levels. This report is an update of a similar study, *A Directory of Forest Tree Nurseries in Canada*, by J.H. Smyth, published in 1980.

The information contained in this report deals with federal, provincial, industrial, and private commercial production centre operations producing bare-root and containerized forest tree seedlings primarily for reforestation of harvested land. The information on individual forest tree production centres and production levels is presented on a provincial basis.

NATIONAL SUMMARY

Bare-root Seedling Production

In 1983, approximately 281 million bare-root seedlings were targeted for production in 47 production centres across Canada (Table 1). The majority of the growing stock is destined for reforestation and afforestation projects on

TABLE 1. NATIONAL SUMMARY OF BARE-ROOT SEEDLING PRODUCTION.

PROVINCE	NUMBER OF PRODUCTION CENTRES	AREA AVAILABLE FOR PRODUCTION -- HECTARES -- (1)	AREA CURRENTLY IN PRODUCTION -- HECTARES -- (2)	SHIPPABLE TREES	PLANNED PRODUCTION	
				1982	1983	1984
				-----	-----	-----
				-----	-----	-----
				-----	('000)	-----
BRITISH COLUMBIA	13	975	334	62 149	81 059	81 759
ALBERTA	2	193	108	9 760	14 516	12 368
SASKATCHEWAN	4	158	89	10 520	16 442	16 442
MANITOBA	1	46	24	4 071	5 483	5 483
ONTARIO	11	743	560	63 018	77 700	82 000
QUEBEC	9	283	250	34 604	62 549	62 549
NEW BRUNSWICK	3	128	92	20 550	15 120	15 200
NOVA SCOTIA	2	72	51	4 100	5 000	5 000
PRINCE EDWARD ISLAND	1	20	2	176	400	400
NEWFOUNDLAND	1	40	40	2 243	2 300	3 800
TOTAL	47	2 658	1 550	211 191	280 569	285 001

(1) Area within the nursery available for growing bare-root stock.
(2) Area within the nursery currently growing bare-root stock.

provincial crown lands with the remainder being planted on federal, industrial freehold, private and municipal lands. Seventy-nine percent of the total targeted seedlings produced were grown in British Columbia, Ontario and Quebec.

A number of significant changes in bare-root production occurred during the five-year period 1979-1983. First, the number of production centres in British Columbia increased from eight in 1979 to 13 in 1983. This increase occurred in the private rather than the public sector. Except for Quebec, which lost one production centre during the five-year period, the number of production centres in the other provinces remained the same. On a national basis, the total number of hectares of land in production increased slightly from 1,363 ha in 1979¹ to 1,550 ha in 1983.

Second, the number of forest tree seedlings produced increased sharply from approximately 200 million in 1979 to 281 million in 1983, an increase of 40%. In comparison with 1979, production rose sharply in all provinces except Saskatchewan, New Brunswick and Prince Edward Island.

In the national context, planned production for 1984 is estimated at 285 million seedlings, an increase of approximately 2% over 1983. Ontario, and to a lesser extent British Columbia and Newfoundland, will account for a large percentage of this increase in production. There will be little or no increase in production levels in the remaining provinces.

Containerized Seedling Production

Approximately 260 million containerized seedlings were targeted for the 83 production centres located throughout Canada in 1983 (Table 2). Eighty-eight percent of this production occurred in four provinces --British Columbia (37%), Ontario (26%), New Brunswick (14%), and Alberta (11%). The number of trees targeted increased sharply by 152 million, or 140%, from the 108 million seedlings produced in 1979. Production for 1984 is estimated to increase marginally over that for 1983 by 4% or 10.7 million seedlings. British Columbia, Manitoba, Ontario, Quebec, New Brunswick, and Nova Scotia are expected to increase production levels over 1983, but only marginally. The remaining provinces, except Saskatchewan, will either maintain or decrease 1984 production levels. Saskatchewan has no planned production for 1984.

There were approximately 264,000 m² of growing space available for containerized production in 1983. The total production area includes heated and non-heated greenhouses, and shelterhouses. The production area of 264,000 m² represents an increase of 153%, or 160,000 m², over the available growing space of 104,000 m² recorded for 1979.

¹ The area in production and other production data for the Prairie Farm Rehabilitation Administration tree nursery in Saskatchewan and the two federal experimental nurseries located in Ontario and Newfoundland, respectively, as noted in the 1980 report, "A Directory of Forest Tree Nurseries in Canada", are excluded from the calculations.

TABLE 2. NATIONAL SUMMARY OF CONTAINERIZED SEEDLING PRODUCTION.

PROVINCE	NUMBER OF PRODUCTION CENTRES	AREA AVAILABLE FOR PRODUCTION -SQUARE METRES-	SHIPPABLE TREES	PLANNED PRODUCTION	
			1982	1983	1984
				('000)	
BRITISH COLUMBIA	22	117 355	65 226	96 632	102 132
ALBERTA	4	17 833	20 757	29 097	26 600
SASKATCHEWAN	2	1 401	872	000	000
MANITOBA	2	1 977	581	2 051	3 677
ONTARIO	28	61 792	32 593	67 134	68 376
QUEBEC	5	10 999	5 718	13 318	15 518
NEW BRUNSWICK	9	27 164	27 363	37 305	38 606
NOVA SCOTIA	7	18 624	9 650	9 591	10 964
PRINCE EDWARD ISLAND	1	3 717	1 633	1 000	1 000
NEWFOUNDLAND	3	3 204	1 627	3 800	3 800
TOTAL	83	264 066	166 460	259 928	270 673

The number of containerized production centres increased dramatically during the five-year period leading up to 1983. This increase occurred mainly in British Columbia and Ontario, which gained 12 and 20 production centres, respectively. In both provinces, the additional production centres have been entirely within the private sector.

The type of container used to rear growing stock varies considerably across the country. In British Columbia the most popular container, and the one used almost exclusively, is the BC/CFS styroplug. Spencer-Lemaire Roottrainer "books" and Japanese paperpots are also used, but to a much lesser extent.

In Alberta, Spencer-Lemaire Roottrainer "books" are used exclusively at both provincial and private sector production centres. In Manitoba, the Japanese paperpot FH408 is used exclusively at the province's two production centres.

In Ontario, several types of container are used. The Japanese paperpot FH408 is the most popular and most widely used, followed by Spencer-Lemaire Roottrainer "books". The Japanese paperpot FH308 and Can-Am Multipot containers are also used, but to a very limited extent.

In Quebec a variety of containers are used, including the Quebec tube, IPL container, Can-Am Multipot, BC/CFS styroblock, and Japanese paperpot FH408. At present, the Quebec tube and the IPL container are the two most popular containers in use.

In Atlantic Canada, the type of container used varies considerably from province to province. In New Brunswick, the Japanese paperpot FH408 is the most widely used container, although the Can-Am Multipot and BC/CFS styroblock are used extensively, and in some cases exclusively, in a number of production centres. In Nova Scotia the Can-Am Multipot is used almost exclusively, while in Prince Edward Island and Newfoundland the Spencer-Lemaire Roottrainer "books" are the most widely used containers. Appendix 1 provides a brief description of each of the more commonly used containers in forest tree production centres across Canada.

Seedling Production by Ownership

Table 3 summarizes bare-root and container seedling production by ownership and province for 1983. Of Canada's total production of tree seedlings, 91% of bare-root stock and 51% of containerized stock was grown by provincial governments. These percentages, however, vary from province to province. Gener-

TABLE 3. NATIONAL SUMMARY OF SEEDLING PRODUCTION BY OWNERSHIP - 1983

PROVINCE		FEDERAL (%)	PROVINCIAL (%)	INDUSTRY (%)	PRIVATE (%)	TOTAL PRODUCTION ('000)
BRITISH COLUMBIA	BARE-ROOT	-	82.3	6.2	11.5	81 059
	CONTAINER	-	45.9	11.0	43.1	96 632
ALBERTA	BARE-ROOT	-	100.0	-	-	14 516
	CONTAINER	-	90.2	9.8	-	29 097
SASKATCHEWAN	BARE-ROOT	-	100.0	-	-	16 442
	CONTAINER	-	-	-	-	-
MANITOBA	BARE-ROOT	-	100.0	-	-	5 483
	CONTAINER	-	100.0	-	-	2 051
ONTARIO	BARE-ROOT	-	98.7	1.3	-	77 700
	CONTAINER	-	27.0	-	73.0	67 134
QUEBEC	BARE-ROOT	-	99.2	20.8	-	62 549
	CONTAINER	-	55.9	20.8	23.5	13 318
NEW BRUNSWICK	BARE-ROOT	-	33.1	66.9	-	15 120
	CONTAINER	-	68.4	31.6	-	37 305
NOVA SCOTIA	BARE-ROOT	-	100.0	-	-	5 000
	CONTAINER	16.3	36.5	27.1	20.1	9 591
PRINCE EDWARD ISLAND	BARE-ROOT	-	100.0	-	-	400
	CONTAINER	-	100.0	-	-	1 000
NEWFOUNDLAND	BARE-ROOT	-	100.0	-	-	2 300
	CONTAINER	-	100.0	-	-	3 800
TOTAL CANADA	BARE-ROOT	-	90.8	5.9	3.3	280 569
	CONTAINER	.6	50.8	11.8	36.8	259 928

ally speaking, the greater percentage of bare-root production was undertaken by provincial governments in all jurisdictions except New Brunswick, where only 33% of the bare-root stock was grown in government nurseries.

In the production of containerized seedlings, only the provinces of Alberta, Manitoba, Prince Edward Island and Newfoundland grew the greater percentage of their container stock in provincially owned production centres. In British Columbia, Ontario, Quebec, New Brunswick and Nova Scotia, a significant proportion of total production was undertaken mainly by the forest industry and private sector. In British Columbia, Ontario, and Nova Scotia 54%, 73%, and 47%, respectively, of the total number of trees reared in 1983 were produced by the forest industry and by commercial operators in the private sector.

DIRECTORY

Explanation of Directory Information

(a) Bare-root Production Centres

- Area Available for Production: The area within the nursery available for growing bare-root stock.
- Area Currently in Production: The area within the nursery currently growing bare-root stock.
- Productive Capacity: The quantity of bare-root stock that could be grown if the total area available for production were utilized.
- Trees Shipped: The total number of trees that were shipped from the production centre in each of the calendar years 1980, 1981 and 1982.
- Planned Production: The estimated planned production for the production centre for each of the calendar years 1983, 1984, 1985 and 1986.

(b) Containerized Production Centres

- Area Available for Production: Includes heated and unheated greenhouses, shelterhouses, hoophouses, etc., but does not include shade areas and open holding areas.
- Shippable Trees: Refers to the number of trees available for shipping in each of the calendar years 1980, 1981, and 1982.

Planned Production:

The estimated planned production for the production centre for each of the calendar years 1983, 1984, 1985 and 1986.

(c) Container Type

A brief description of the major containers used in production centres across Canada is given in Appendix 1.

(d) Major Species Grown

Appendix 2 provides the common and scientific names for species grown at production centres.

British Columbia



- ▲ bare-root/container production centre
- bare-root production centre
- container production centre

PROVINCIAL SUMMARY

	bare-root	container
Number of production centres	13	22
Area available for production	974.9 ha	117 355 m ²
Area currently in production	334.4 ha	-
1982 Shippable production ('000)	62 149	65 226
1983 Targeted production ('000)	81 059	96 632

PROVINCE OF BRITISH COLUMBIA
BARE-ROOT PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	AREA AVAILABLE FOR PRODUCTION (HA)	AREA CURRENTLY IN PRODUCTION (HA)	PRODUCTIVE CAPACITY ('000 TREES)	TREES SHIPPED 1980 ('000 TREES)	1981 ('000 TREES)	1982 ('000 TREES)	PLANNED PRODUCTION 1983-1986 ('000 TREES)	MAJOR SPECIES GROWN
INDUSTRY	GRANDVIEW NURSERY MEYERHAEUSER CANADA LTD., R.R. 3 ST. ANNE'S RD., ARMSTRONG, B.C., V0E 1B0 604-546-8711 T.C. DANIELS	27	17	8 300	-	-	-	1983 - 5 000 1984 - 5 000 1985 - 5 000 1986 - 5 000	LP 80% DF 10% ME 4% ES 4% OCON 2%
PRIVATE	GREATER VICTORIA WATER DIST., 479 ISLAND HIGHWAY, V9B 1H7 604-478-1715 D.H. PILLAR	.5	.2	150	75	80	75	1983 - 1984 - 60 1985 - 60 1986 - 60	AF 85% MRC 15%
PRIVATE	INDUSTRIAL FORESTRY SERVICE MESS LAKE FOREST NURSERY, 1596 FAIRFAX AVENUE, PRINCE GEORGE, B.C., V2L 4M2 604-564-4115 P.P. DONNELLY	16	8	8 000	700	2 000	4 000	1983 - 4 800 1984 - 5 200 1985 - 5 000 1986 - 6 000	MS 100%
PRIVATE	NORTHWOOD PULP AND TIMBER FOREST CENTRE, BOX 9000 PRINCE GEORGE, B.C., V2L 4M2 604-962-9611 K. NATSON	117	34	4 500	-	-	2 800	1983 - 4 000 1984 - 4 000 1985 - 4 000 1986 - 4 000	MS 100%
PRIVATE	RIVERSIDE NURSERY, BOX 185, HEDLEY, B.C., V0X 1K0 604-292-8397 I. NELSON	8	2	3 000	-	252	383	1983 - 500 1984 - 500 1985 - 500 1986 - 500	MS 100%
PROVINCE	CAMPBELL RIVER NURSERY, MINISTRY OF FORESTS, BOX 25 CAMPBELL RIVER, B.C., V9W 4Z9 604-286-1015 R.G. HUDSON	90	39	11 100	5 347	9 104	8 476	1983 - 6 000 1984 - 6 000 1985 - 6 000 1986 - 6 000	S 38% BF 35% AF 27%
PROVINCE	CHILLIMACK NURSERY, MINISTRY OF FORESTS, BOX 242 VEDDER CROSSING, B.C., V0X 1Z0 604-838-7156 V. BITTERLICH	51	40	9 000	4 968	8 260	6 092	1983 - 9 000 1984 - 9 000 1985 - 9 000 1986 - 9 000	S 56% BF 43% AF 1%

PROVINCE OF BRITISH COLUMBIA
BARE-ROOT PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	AREA AVAILABLE FOR PRODUCTION (HA)	AREA CURRENTLY IN PRODUCTION (HA)	PRODUCTIVE CAPACITY ('000 TREES)	TREES SHIPPED 1980 1981 ('000 TREES)	PLANNED PRODUCTION 1983-1986 ('000 TREES)	MAJOR SPECIES GROWN
PROVINCE	GREEN TIMBERS NURSERY, MINISTRY OF FORESTS, 9800-140 STREET, SURREY, B.C., V3T 4M5 604-581-2464 M.M. COLLARD	65	27	6 500	4 468 2 558 3 669	1983 - 4 500 1984 - 4 500 1985 - 4 500 1986 - 4 500	F 86% P 9% S 4% OCOM 1%
PROVINCE	KONSLAH NURSERY (A) MINISTRY OF FORESTS, 1847 CHESTERFIELD ST., BOX 816, B.C., DUNCAN, V9L 3V2 604-746-5352 M.A. MARSHALL	28	10	6 500	2 919 2 699 2 636	1983 - 1984 - 1985 - 1986 -	F 46% P 38% S 14% H 3%
PROVINCE	RED ROCK NURSERY MINISTRY OF FORESTS, 15 MILE ROAD, R.R. 7, R.M.D. 6, B.C., PRINCE GEORGE, B.C., V2M 2J5 604-563-9651 M. BEAG	220	60	14 700	8 780 10 204 9 138	1983 - 10 550 1984 - 10 550 1985 - 10 550 1986 - 10 550	S 76% P 24%
PROVINCE	SKIMIKIN NURSERY MINISTRY OF FORESTS, CENTRAL DELIVERY, TAPPEN B.C., V0E 2X0 604-835-4241 J.H. HAMILTON	162	24	9 700	4 905 7 224 7 960	1983 - 7 792 1984 - 7 792 1985 - 7 792 1986 - 7 792	S 63% P 36% OCOM 1%
PROVINCE	SURREY NURSERY, MINISTRY OF FORESTS, 3605-192 STREET, SURREY, B.C., V3S 4N6 604-576-9161 H. SCHROEDER	188	71	30 500	23 380 16 114 16 211	1983 - 28 050 1984 - 28 050 1985 - 28 050 1986 - 28 050	S 73% P 23% OCOM 4%
PROVINCE	TELKWA NURSERY, MINISTRY OF FORESTS, BOX 110, B.C., TELKWA, V0J 2X0 M. CHADSEY	2.4	2.2	1 500	547 3 293 709	1983 - 807 1984 - 807 1985 - 807 1986 - 807	S 100%

(A) NURSERY CURRENTLY BEING PHASED OUT

PROVINCE OF BRITISH COLUMBIA
CONTAINER STOCK PRODUCTION CENTRES

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OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	PRODUCTION AREA (TYPE)	AREA AVAILABLE FOR PRODUCTION (SQ. M.)	SHIPPABLE TREES 1980 ('000 TREES)	1981 1982	PLANNED PRODUCTION 1983-1986 ('000 TREES)	CONTAINER TYPE	MAJOR SPECIES GROWN
INDUSTRY	CROWN ZELLERBACH R.R. 3 ARMSTRONG, B.C., V0E 1B0 604-546-8600 G. NICHOLSON	HEATED	6 522	-	1 000	1983 - 4 000 1984 - 4 000 1985 - 4 000 1986 - 4 000	STYRO 312, LP 313	70% 30%
INDUSTRY	MACMILLAN BLOEDEL LTD., WOODLANDS SERVICES DIV., 65 FRONT ST., MAMALMO, B.C., V9B 5H9 604-753-1112 P. CLARKSON	HEATED UNHEATED	280 3 620	-	1 900	1983 - 4 000 1984 - 4 000 1985 - 4 000 1986 - 4 000	STYRO 313 F	100%
INDUSTRY	PACIFIC FOREST PRODUCTS LTD., 8067 EAST SAANICH RD., R.R. 1 SAANICHTON, B.C., V0S 1B0 604-552-3013/1234 T.A. HALE	HEATED	4 275	-	770	1 500	STYRO 2, 4, DF 5, 46 MF SP/LE 5 OCON	50% 30% 20%
INDUSTRY	WEST FRASER MILLS LTD., BOX 6000, QUESNEL, B.C., V2J 3J5 604-992-9244 D. MADLUNG	HEATED UNHEATED	133 133	-	123	93	STYRO 211, LP 313	57% 43%
PRIVATE	ARBUTUS GROVE NURSERY, 9721 WEST SAANICH RD., SIDNEY, B.C., V8L 3S1 604-556-4162 M. STOFFELSMAN	HEATED OPEN	3 723 1 858	-	800	1 200	STYRO 211, MF 313 OCON	40% 40% 20%
PRIVATE	BALCO INDUSTRIES LTD., R.R. 3 KAMLOOPS, B.C. V2C 5K1 604-578-7212 G. CASTONGUAY	HEATED OPEN COMPOUND	3 448 2 424	-	2 307	1983 - 3 000 1984 - 3 000 1985 - 3 000 1986 - 3 000	STYRO 211, S 313	50% 40% 10%
PRIVATE	GREATER VICTORIA WATER DISTRICT 479 ISLAND HIGHWAY, VICTORIA, B.C., V9B 1H7 604-478-1715 D.H. PILLAR	HEATED	486	79	84	76	STYRO 415 DF MRC	85% 15%

PROVINCE OF BRITISH COLUMBIA
CONTAINER STOCK PRODUCTION CENTRES

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OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	PRODUCTION AREA (TYPE)	AREA AVAILABLE FOR PRODUCTION (SQ. M.)	SHIPPABLE TREES 1980 ('000 TREES)	1981	1982	PLANNED PRODUCTION 1983-1986 ('000 TREES)	CONTAINER TYPE	MAJOR SPECIES GROWN
PRIVATE	INDUSTRIAL FORESTRY SERVICE, 4109 - 155 FORT AVENUE, PRINCE GEORGE, B.C., V2L 3L9 604-563-4115 F.P. DONNELLY	HEATED	2 884	-	1 600	1 900	1983 - 2 000 1984 - 4 000 1985 - 5 000 1986 - 5 000	STYRO 211, MS 313	90% 10%
PRIVATE	NORTHWOOD PULP AND TIMBER FOREST CENTRE, BOX 9000 PRINCE GEORGE, B.C., V2L 4N2 604-562-9611 K. WATSON	HEATED	7 500	-	4 800		1983 - 5 500 1984 - 5 500 1985 - 5 500 1986 - 5 500	STYRO 211, S 313, 415	80% 20%
PRIVATE	PELTON REFORESTATION LTD., 12930 203RD ST., MAPLE RIDGE, B.C., V2V 2M3 604-462-5411 M. PELTON	HEATED	20 000	2 400	8 900	8 000	1983 - 12 500 1984 - 12 500 1985 - 12 500 1986 - 12 500	STYRO 211, S 313, 415	55% 40% 5%
PRIVATE	REID, COLLINS NURSERIES, BOX 430 ALDERGROVE, B.C., V0X 1A0 604-856-6408 G. LAUCLAN	HEATED	4 930	-	1 200	1 600	1983 - 2 500 1984 - 2 500 1985 - 2 500 1986 - 2 500	SP/LE PAPPT STYRO 313	75% 25%
PRIVATE	RUFF HOLDINGS LTD., BOX 1768, PRINCE GEORGE, B.C., V2L 4V7 604-963-7722 O. RUFF	HEATED	5 000	-	950	2 000	1983 - 3 250 1984 - 3 250 1985 - 3 250 1986 - 3 250	STYRO 211, MS 313	95% 5%
PRIVATE	SYLVAN VALE NURSERY R.R. 1 BLACK CREEK, B.C., V0X 1P9-8487 R.S. JONES	HEATED UNHEATED	2 508 3 762	-	2 850	3 250	1983 - 4 525 1984 - 4 525 1985 - 4 525 1986 - 4 525	STYRO 313, F 211, 310, 415	25% 25% 25% 25%
PRIVATE	WORLD SILVICULTURE LTD., R.R. 1 OLIVER, B.C., V0H 1T6 604-438-4974 D.C. LUND	HEATED UNHEATED	961 6 000	-	5 100	5 300	1983 - 5 300 1984 - 5 300 1985 - 11 000 1986 - 14 000	STYRO 313, LP 211, 311, 415A	90% 6% 4%
PROVINCE	CAMPBELL RIVER NURSERY, MINISTRY OF FORESTS, BOX 244 CAMPBELL RIVER, B.C., V9M 4Z3 604-286-1015 R.C. HUDSON	HEATED	4 380	307	1 301	2 194	1983 - 3 125 1984 - 3 125 1985 - 3 125 1986 - 3 125	STYRO 211, BF 313	41% 37% 22%

PROVINCE OF BRITISH COLUMBIA
CONTAINER STOCK PRODUCTION CENTRES

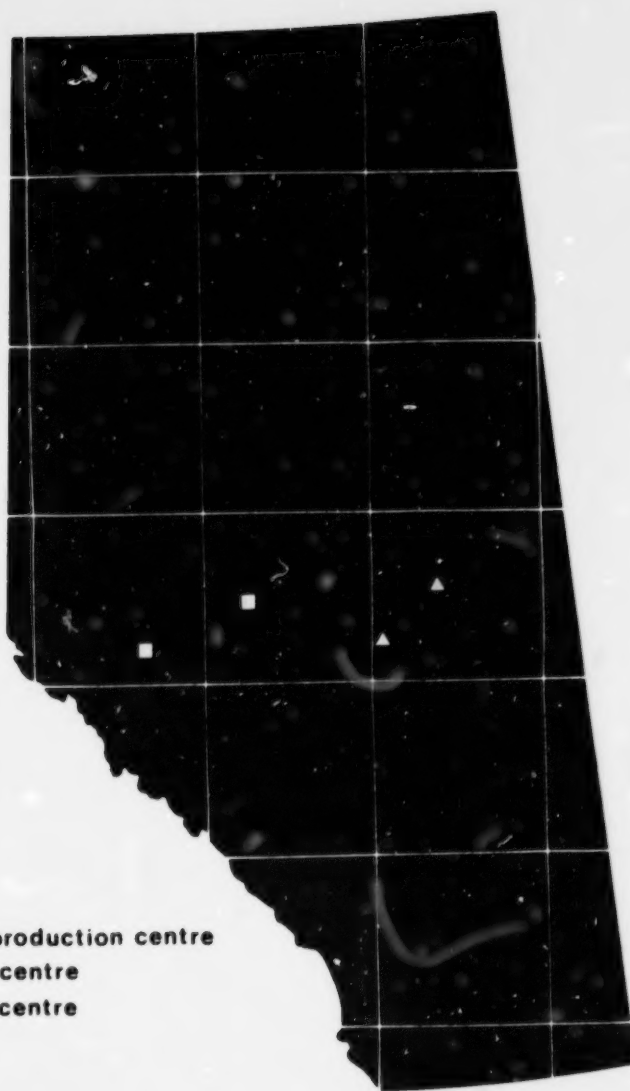
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OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	PRODUCTION AREA (TYPE)	AREA AVAILABLE FOR PRODUCTION (SQ. M.)	SHIPPABLE TREES 1980 ('000 TREES)	1982	PLANNED PRODUCTION 1983-1986 ('000 TREES)	CONTAINER TYPE	MAJOR SPECIES GROWN
PROVINCE	GREEN TIMBERS NURSERY, MINISTRY OF FORESTS, 9800 - 140 STREET, SURREY, B.C., V3T 4M5 604-581-2464 M.N. COLLARD	HEATED SHADEFRAME	5 632 2 880	4 851	5 095	5 979	STYRO 211, S 313	77% 16% 7%
PROVINCE	HARROP NURSERY MINISTRY OF FORESTS, R.R. 3, B.C. NELSON, V1L 2V6-5353 H. ELIAS	HEATED UNHEATED	5 647 261	482	153	251	STYRO 211, S 313	93% 7%
PROVINCE	KOKSILAH NURSERY MINISTRY OF FORESTS 5847 CHESTERFIELD ST., BOX 816, DUNCAN, B.C. V9L 3V2 604-746-5452 M.A. MARSHALL	HEATED UNHEATED OPEN COMPOUND	9 275 3 132 2 880	4 871	6 847	5 924	STYRO 211, S 313 SP/LE 5 F P	28% 22% 19% 19% 12%
PROVINCE	RED ROCK NURSERY MINISTRY OF FORESTS, 15 MILE ROAD, R.R. 7, R.M.D. 6, PRINCE GEORGE, B.C., V2N 2J5 604-563-9651 M. BERG	HEATED UNHEATED	1 105 837	320	804	924	STYRO 211, S 313	85% 15%
PROVINCE	SKIMIKIN NURSERY MINISTRY OF FORESTS, GENERAL DELIVERY, TAPPEN, B.C., V0E 2X0-4541 604-835-4541 I.H. HAMILTON	HEATED OPEN COMPOUND	3 880 18 800	2 516	2 793	3 348	STYRO 211, P 313 ML F S	86% 9% 4% 1%
PROVINCE	SURREY NURSERY MINISTRY OF FORESTS, 3605 - 192 STREET, SURREY, B.C. V3S 4M6 604-576-3161 H. SCHROEDER	HEATED UNHEATED SHADE FRAME	5 927 1 026 11 520	9 911	11 481	8 419	STYRO 211, S 313	57% 24% 9%
PROVINCE	VERNON NURSERY MINISTRY OF FORESTS 4604 PLEASANT VALLEY ROAD, VERNON, B.C. V1T 4M6 604-542-0264 K. STRALBISKI	HEATED OPEN COMPOUND	88 5 325	2 711	3 280	3 261	STYRO 211, P 313	100%

NOTE: PERCENTAGE USE OF CONTAINERS IN PROVINCIALLY-OWNED NURSERIES; STYRO 313 - 70%, STYRO 211 - 20%, STYRO 415 - 4%, SP/LE - 6%.

CONTAINER TYPES: STYRO = BC/CFS STYROPLUG; SP/LE = SPENCER LEWINE "ROOTTRAINERS"; PAPPT = PAPERPOT.

Alberta



- ▲ bare-root/container production centre
- bare-root production centre
- container production centre

PROVINCIAL SUMMARY

	bare-root	container
Number of production centres	2	4
Area available for production	193 ha	17 833 m ²
Area currently in production	108 ha	-
1982 Shippable production ('000)	9 760	20 797
1983 Targeted production ('000)	14 516	29 097

PROVINCE OF ALBERTA
BARE-ROOT PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	AREA AVAILABLE FOR PRODUCTION (HA)	AREA CURRENTLY IN PRODUCTION (HA)	PRODUCTIVE CAPACITY ('000 TREES)	TREES SHIPPED 1980 ('000 TREES)	1981 ('000 TREES)	1982 ('000 TREES)	PLANNED PRODUCTION 1983-1986 ('000 TREES)	MAJOR SPECIES GROWN
PROVINCE	ALBERTA TREE NURSERY AND HORTICULTURE CENTRE, DEPT. OF AGRICULTURE, P.O. 6 EDMONTON, ALTA., T5B 4K3 403-973-3351 G. GRAINGER	113	65	3 200	2 700	2 700	2 700	1983 - 3 000 1984 - 3 000 1985 - 3 000 1986 - 3 000	DEC 30% X(*) 70%
PROVINCE	PINE RIDGE FOREST NURSERY, ALBERTA FOREST SERVICE, DEPT. OF ENERGY & NATURAL RESOURCES, BOX 750 SMOKY LAKE, ALTA., T0A 3C0 403-656-4130 R. MIEN	80	43	16 000	929	6 188	7 060	1983 - 9 516 1984 - 7 368 1985 - 19 530 1986 - 15 000	MS 90% LP 10%

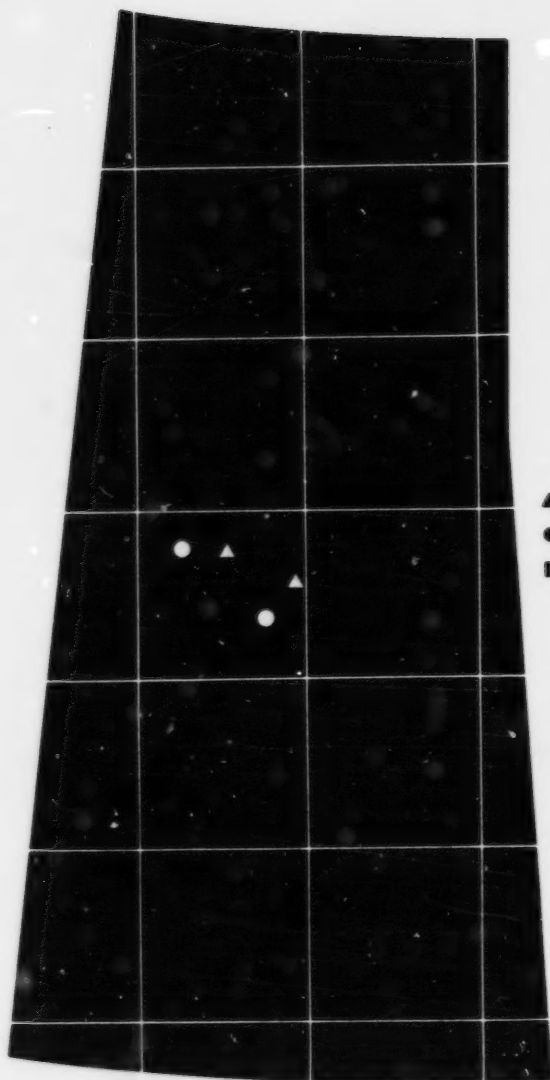
(*) INCLUDES CARAGANA 30%

PROVINCE OF ALBERTA
CONTAINER STOCK PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	PRODUCTION AREA (TYPE)	AREA AVAILABLE FOR PRODUCTION (SQ. M.)	SHIPPABLE TREES 1980 ('000 TREES)	1982	PLANNED PRODUCTION 1983-1986 ('000 TREES)	CONTAINER TYPE	MAJOR SPECIES GROWN
INDUSTRY	BLUE RIDGE LUMBER (1981) LTD., BOX 1079 WHITECOURT, ALTA., T0E 2L0 403-648-3733 D. CURREY	HEATED UNHEATED	610 750	1 100	1 100	1983 - 1 100 1984 - 1 100 1985 - 1 100 1986 - 1 100	SP/LE 4,5, 6	WS LP X 75% 20% 5%
INDUSTRY	ST. REGIS (ALBERTA) LTD., BAG SERVICE 8000 HINSON, ALTA. T0E 1B0 403-865-2251 EXT.497 S. TORNEBLOM	HEATED	1 068	-2 500	3 000	2 750	SP/LE 6	LP WS 75% 25%
PROVINCE	ALBERTA TREE NURSERY AND HORTICULTURE CENTRE DEPT. OF AGRICULTURE, R.R. 6 EDMONTON, ALTA., T5B 4N3 403-513-3351 G. GRAINGER	HEATED	1 365	2 700	2 700	2 700	SP/LE 6	CON DEC 50% 50%
PROVINCE	PINE RIDGE FOREST NURSERY, ALBERTA FOREST SERVICE DEPT. OF ENERGY & NATURAL RESOURCES, BOX 750 SMOKY LAKE, ALTA., T0A 3C0 403-656-4130 R. WIMM	HEATED	14 040	12 446	8 701	14 247	SP/LE 6	WS LP 90% 10%

CONTAINER TYPE : SP/LE = SPENCER-LEMAINE "ROOTTRAINERS".

Saskatchewan



- ▲ bare-root/container production centre
- bare-root production centre
- container production centre

PROVINCIAL SUMMARY

	bare-root	container
Number of production centres	4	2
Area available for production	157.6 ha	1 401 m ²
Area currently in production	88.8 ha	-
1982 Shippable production ('000)	10 520	872
1983 Targeted production ('000)	16 442	(*)
	(*) no production planned	

PROVINCE OF SASKATCHEWAN
BARE-ROOT PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	AREA AVAILABLE FOR PRODUCTION (HA)	AREA CURRENTLY IN PRODUCTION (HA)	PRODUCTIVE CAPACITY (' 000 TREES)	TREES SHIPPED 1980 (' 000 TREES)	1981 (' 000 TREES)	1982 (' 000 TREES)	PLANNED PRODUCTION 1983-1986 (' 000 TREES)	MAJOR SPECIES GROWN
PROVINCE	BIG RIVER FOREST NURSERY, DEPT. OF PARKS AND RENOVABLE RESOURCES, SASK., BIG RIVER, SASK., S0J 0E0 306-469-2180 J. McCUTCHEON	28	13	15 000	2 341	2 924	3 436	1983 - 4 500 1984 - 4 500 1985 - 4 500 1986 - 4 500	MS JP 48%
PROVINCE	CHITEX LAKE FOREST NURSERY, DEPT. OF PARKS AND RENOVABLE RESOURCES, BOX 3003, PRINCE ALBERT, SASK., S6V 6G1 306-981-2157 J. CHERNYSH	9.3	7.4	2 000	-	210	307	1983 - 1 538 1984 - 1 538 1985 - 1 538 1986 - 1 538	MS JP 70% 30%
PROVINCE	PRINCE ALBERT FOREST NURSERY, DEPT. OF PARKS AND RENOVABLE RESOURCES, BOX 3003, PRINCE ALBERT, SASK., S6V 6G1 306-764-9119 L. REMPEL	111	61	30 000	8 300	4 258	6 613	1983 - 9 192 1984 - 9 192 1985 - 9 192 1986 - 9 192	MS JP 80% 20%
PROVINCE	SOUTHRANCH FOREST NURSERY, DEPT. OF PARKS AND RENOVABLE RESOURCES, BOX 3003, PRINCE ALBERT, SASK., S6V 6G1 306-467-4461 J. CHERNYSH	9.3	7.4	2 000	-	217	162	1983 - 1 212 1984 - 1 212 1985 - 1 212 1986 - 1 212	JP MS 75% 25%

PROVINCE OF SASKATCHEWAN
CONTAINER STOCK PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	PRODUCTION AREA (TYPE)	AREA AVAILABLE FOR PRODUCTION (SQ. M.)	SHIPPABLE TREES 1980 ('000 TREES)	1982	PLANNED PRODUCTION 1983-1986 ('000 TREES)	CONTAINER TYPE	MAJOR SPECIES GROWN
PROVINCE	BIG RIVER FOREST NURSERY, DEPT. OF PARKS AND RENOVABLE RESOURCES, BIG RIVER, SASK., S0J 0E0 306-469-2180 J. McCUTCHEON	HEATED	267	21	154	100	MULTI 2	RP 60% LP 40%
PROVINCE	PRINCE ALBERT FOREST NURSERY, DEPT. OF PARKS AND RENOVABLE RESOURCES, BOX 3003, PRINCE ALBERT, SASK., S0V 6C1 306-564-9119 L. REMPEL	HEATED	1 134	956	821	772	MULTI 2	JP 100%

CONTAINER TYPE : MULTI = CAN-AM MULTIPOT.

Manitoba



- ▲ bare-root/container production centre
- bare-root production centre
- container production centre

PROVINCIAL SUMMARY

	bare-root	container
Number of production centres	1	2
Area available for production	46 ha	1 977 m ²
Area currently in production	24 ha	-
1982 Shippable production ('000)	4 071	981
1983 Targeted production ('000)	5 483	2 051

PROVINCE OF MANITOBA
BARE-ROOT PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	AREA AVAILABLE FOR PRODUCTION (HA)	AREA CURRENTLY IN PRODUCTION (HA)	PRODUCTIVE CAPACITY ('000 TREES)	TREES SHIPPED 1980 ('000 TREES)	1981 ('000 TREES)	1982 ('000 TREES)	PLANNED PRODUCTION 1983-1986 ('000 TREES)	MAJOR SPECIES GROWN
PROVINCE	PINELAND PROVINCIAL FOREST NURSERY, BOX 45, HADASHVILLE, MAN., R0E 0X0 204-426-5235 H.C. FIRSCHMANN	46	24	23 000	1 518	3 518	4 071	1983 - 5 483 1984 - 5 483 1985 - 5 483 1986 - 5 483	JP WS RP SP L
									45 29 21 4 1

PROVINCE OF MANITOBA
CONTAINER STOCK PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	PRODUCTION AREA (TYPE)	AREA AVAILABLE FOR PRODUCTION (SQ. M.)	SHIPPABLE TREES 1980 ('000 TREES)	1981 ('000 TREES)	1982 ('000 TREES)	PLANNED PRODUCTION 1983-1986 ('000 TREES)	CONTAINER TYPE	MAJOR SPECIES GROWN
PROVINCE	CLEARWATER PROVINCIAL FOREST NURSERY OF NATURAL RESOURCES, DEPT. OF NATURAL RESOURCES, BOX 2550, THE PAS, MAN., 204-624-5769 (POSITION VACANT)	HEATED	1 355	-	-	-	1983 - 400 1984 - 1 200 1985 - 2 000 1986 - 2 800	PAPPT 408	BS JP 83% 17%
PROVINCE	PINELAND PROVINCIAL TREE NURSERY OF NATURAL RESOURCES, BOX 15, HARRISVILLE, MAN., 202-670-5235 204-426-5235 H.C. TIRSCHMANN	HEATED	622	502	939	981	1983 - 1 651 1984 - 1 477 1985 - 3 990 1986 - 3 642	PAPPT 408	BS MS 92% 8%

CONTAINER TYPE : PAPPT = PAPERPOT

Ontario



- ▲ bare-root/container production centre
- bare-root production centre
- container production centre

PROVINCIAL SUMMARY

	bare-root	container
Number of production centres	11	28
Area available for production	743 ha	61 792 m ²
Area currently in production	560 ha	-
1982 Shippable production ('000)	63 018	32 593
1983 Targeted production ('000)	77 700	67 134

PROVINCE OF ONTARIO
BARE-ROOT PRODUCTION CENTRES

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OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	AREA AVAILABLE FOR PRODUCTION (HA)	AREA CURRENTLY IN PRODUCTION (HA)	PRODUCTIVE CAPACITY ('000 TREES)	TREES SHIPPED 1980 1981 1982 ('000 TREES)	PLANNED PRODUCTION 1983-1985 ('000 TREES)	MAJOR SPECIES GROWN
INDUSTRY							
	KIMBERLY-CLARK OF CANADA LIMITED WOODLANDS DIVISION, LONGAC, ONT., P.O. 240, 807-876-2221 H.T. STANLEY	16	12	1 250	1 119 550 743	1983 - 1 000 BS 1984 - 1 000 JP 1985 - 1 000 MS 1986 - 1 000	BS 60% JP 23% MS 17%
PROVINCE							
	CHAPLEAU NURSERY MINISTRY OF NATURAL RESOURCES 190 CHERRY ST., CHAPLEAU, ONT., P.O. 110 705-864-1717 M.E. HAWKINS	8	7	3 300	1 900 2 400 1 100	1983 - 2 200 JP 1984 - 3 300 1985 - 3 300 1986 - 3 300	JP 100%
PROVINCE							
	ORDEN FOREST STATION, MINISTRY OF NATURAL RESOURCES, BOX 90 MABICOM, ONT., P.O. 240 807-938-6326 T.R. MYLAND	36	25	12 000	2 500 5 800 2 500	1983 - 6 000 BS 1984 - 6 000 MS 1985 - 6 000 1986 - 6 000	BS 80% MS 20%
PROVINCE							
	G. HOWARD FERGUSON FOREST STATION MINISTRY OF NATURAL RESOURCES, R.R. 4 KENNEDYVILLE, ONT., KOC 1G0 613-258-3413 A.J. CAMPBELL	141	115	12 000	8 500 9 100 7 900	1983 - 9 200 EXP 1984 - 10 000 MS 1985 - 11 500 JP 1986 - 11 500 SP 10% EP 5% L 4% OCOM 2% ODEC 4%	EXP 28% MS 12% JP 10% SP 10% EP 5% L 4% OCOM 2% ODEC 4%
PROVINCE							
	GOCAMA FOREST STATION, MINISTRY OF NATURAL RESOURCES, BOX 129, ONT., GOCAMA P.O. 140 705-894-2075 B. CASSIDY	7	3	3 200	1 200 3 200 3 100	1983 - 3 200 JP 1984 - 3 200 1985 - 3 200 1986 - 3 200	JP 100%
PROVINCE							
	KIRKWOOD FOREST STATION, MINISTRY OF NATURAL RESOURCES, BOX 110 KIRKWOOD, ONT., P.O. 110 705-847-3912 I.E. SEABROOK	15	4	1 500	888 898 482	1983 - 700 JP 1984 - 1 500 MS 1985 - 1 500 EXP 1986 - 1 000	JP 75% MS 24% EXP 1%

PROVINCE OF ONTARIO
BARE-ROOT PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	AREA AVAILABLE FOR PRODUCTION (HA)	AREA CURRENTLY IN PRODUCTION (HA)	PRODUCTIVE CAPACITY ('000 TREES)	TREES SHIPPED 1980 ('000 TREES)	1981 ('000 TREES)	1982 ('000 TREES)	PLANNED PRODUCTION 1983-1986 ('000 TREES)	MAJOR SPECIES CROWN
PROVINCE	MIDHURST FOREST STATION, MINISTRY OF NATURAL RESOURCES, ONT., WILKINSON, ONT., 704-728-2900 C.R. GROVES	114	94	12 000	9 100	8 200	8 600	1983 - 8 200 1984 - 9 500 1985 - 10 200 1986 - 10 500	EMP MS RP NE EMC EMC SP X OCON ODEC
PROVINCE	OROMO FOREST STATION, MINISTRY OF NATURAL RESOURCES, BOX 119 OROMO, ONT., L0B 1M0 416-983-9147 B.J. PHILLION	85	58	8 300	5 992	4 918	5 075	1983 - 6 000 1984 - 6 000 1985 - 6 000 1986 - 6 000	MS RP RP EMC EMC SP NS ODEC
PROVINCE	ST. WILLIAMS FOREST STATION, MINISTRY OF NATURAL RESOURCES, R.A. WILLIAMS, ONT., BOX 160 ST. WILLIAMS, ONT., 218-586-3576 G.R. MCLEOD	85	80	8 100	8 031	7 968	7 239	1983 - 7 200 1984 - 7 200 1985 - 7 200 1986 - 7 200	EMP EMC MS NS MS X
PROVINCE	SWASTIKA FOREST STATION, MINISTRY OF NATURAL RESOURCES, BOX 129 SWASTIKA, ONT., POB 140 705-642-3255 L. FORCIER	114	114	22 000	19 350	19 200	15 325	1983 - 19 000 1984 - 19 000 1985 - 19 000 1986 - 19 000	BS MS MS JP
PROVINCE	THUNDER BAY FOREST STATION, MINISTRY OF NATURAL RESOURCES, R.P. 1 THUNDER BAY, ONT., P.O. Box 119 707-919-2558 R. KLAPPEN	122	48	19 000	8 604	11 028	10 954	1983 - 15 000 1984 - 16 000 1985 - 17 000 1986 - 19 000	BS MS JP RP X

PROVINCE OF ONTARIO
CONTAINER STOCK PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	PRODUCTION AREA (TYPE)	AREA AVAILABLE FOR PRODUCTION (SQ. M.)	SHIPPABLE TREES 1980 ('000 TREES)	1981 ('000 TREES)	PLANNED PRODUCTION 1983-1986 ('000 TREES)	CONTAINER TYPE	MAJOR SPECIES GROWN
PRIVATE	A & R GREENHOUSES LTD., R.R. 1, BARKHAM, ONT., PO BOX 120 807-857-2471 F. RAUER J. ASPERJAN	HEATED	1 605	-	1 750	1983 - 1 000 1984 - 1 000 1985 - 1 000 1986 - 1 000	PAPPT 408 JP	100%
PRIVATE	AIDIE CREEK GARDENS, R.R. 3 ENGLEHART, ONT., PO BOX 140 705-544-2474 C. WANNER	HEATED UNHEATED	1 084 1 365	-	1 814	1983 - 2 735 1984 - 2 735 1985 - 2 735 1986 - 2 735	PAPPT 408 BS JP	71% 29%
PRIVATE	BIRCHILL NURSERIES INC., R.R. 2 COCHRANE, ONT., PO BOX 100 704-357-3244 J.R. SAIDMORE	HEATED	2 890	-	-	1983 - 1 935 1984 - 1 935 1985 - 1 935 1986 - 1 935	PAPPT 408 BS	100%
PRIVATE	BLAZECCA'S GREENHOUSES, R.R. 2 COCHRANE, ONT., PO BOX 100 705-272-3915 J. BLAZECCA	HEATED	1 204	-	-	1983 - 800 1984 - 800 1985 - 800 1986 - 800	PAPPT 408 BS	100%
PRIVATE	COOK LAKE NURSERIES LTD., R.R. 1, ONT., DRYDEN, P.O. BOX 274 M. SCHNEIDER	HEATED	669	-	-	1983 - 1 200 1984 - 1 200 1985 - 1 200 1986 - 1 200	SP/LE 6 JP BS	50% 50%
PRIVATE	CREEKSIDE NURSERY LTD., R.R. 11, THUNDER BAY, ONT., P.O. BOX 527 807-767-3437 D. TREVISANUTTO	HEATED	3 211	-	1 736	1983 - 2 146 1984 - 2 146 1985 - 2 146 1986 - 2 146	PAPPT 408 BS	100%
PRIVATE	EMERGENT ENTERPRISES INC., BOX 329 BARKHAM, ONT., PO BOX 170 705-216-4311 G. LEVANGIE	HEATED	5 619	-	3 180	1983 - 6 388 1984 - 6 388 1985 - 6 388 1986 - 6 388	PAPPT 408 BS JP	50% 50%

PROVINCE OF ONTARIO
CONTAINER STOCK PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	PRODUCTION AREA (TYPE)	AREA AVAILABLE FOR PRODUCTION (SQ. M.)	SHIPPABLE TREES 1980 ('000 TREES)	1981 1982	PLANNED PRODUCTION 1983-1986 ('000 TREES)	CONTAINER TYPE	MAJOR SPECIES GROWN
PRIVATE	EVERGREEN FARMS, 48 PRINCESS ST., DRYDEN, ONT., P.O. BOX 154, 807-337-5239 C. C. GUEAU	HEATED	1 212	-	1 391	1983 - 2 200 1984 - 2 200 1985 - 2 200 1986 - 2 200	SP/LE 6	JP BS 50%
PRIVATE	GRUNDY'S NURSERIES LTD., PASS LAKE, ONT., P.O. BOX 240, 807-577-2832 E. GRUNDY	HEATED	1 605	-	-	1983 - 1 000 1984 - 1 000 1985 - 1 000 1986 - 1 000	PAPPT 408	BS 100%
PRIVATE	HILLS GREENHOUSES LTD., OLIVER RD., MURILLO, ONT., P.O. BOX 200, 807-935-2626 H. VANDUYN R. MEENS	HEATED	3 612	-	2 912	1983 - 3 000 1984 - 3 000 1985 - 3 000 1986 - 3 000	PAPPT 408	BS 100%
PRIVATE	HOLMITS ENTERPRISES LTD., R.N. 6, AVONDALE AVONDALE BAY, ONT., P.O. BOX 100, 807-838-6027 J. HOLMITS D. HOLMITS	HEATED	4 631	-	2 024	1983 - 2 820 1984 - 2 820 1985 - 2 820 1986 - 2 820	PAPPT 408	BS 100%
PRIVATE	JELLEN NURSERIES (ARMSTRONG) LTD., BOX 164, ASHSTROM, ONT., P.O. BOX 110, 807-583-2055 T. J. NEILL J. NEILL	HEATED	1 605	-	-	1983 - 1 000 1984 - 1 000 1985 - 1 000 1986 - 1 000	PAPPT 408	BS 100%
PRIVATE	LA MAISON VERTE, BOX 1868, HEARST, ONT., P.O. BOX 100, 705-362-7040 M. LAMY	HEATED	1 906	-	-	1983 - 2 000 1984 - 2 000 1985 - 2 000 1986 - 2 000	PAPPT 408	BS 100%
PRIVATE	LAFLEUR GARDENS LTD., R.N. 16, P.O. BOX 703, 705-257-2972 R. LAFLEUR	HEATED	2 185	-	1 750	1983 - 6 794 1984 - 6 794 1985 - 6 794 1986 - 6 794	PAPPT 408	BS JP 50%
PRIVATE	LAVA MOUNTAIN LTD., BOX 10, RAMORE, P.O. BOX 100, 705-236-4286 D.E. BOOTHE	HEATED	2 984	-	-	1983 - 4 000 1984 - 4 000 1985 - 4 000 1986 - 4 000	PAPPT 408	BS 100%

PROVINCE OF ONTARIO
CONTAINER STOCK PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	PRODUCTION AREA (TYPE)	AREA AVAILABLE FOR PRODUCTION (SQ. M.)	SHIPPABLE TREES 1980 ('000 TREES) 1981 1982	PLANNED PRODUCTION 1983-1986 ('000 TREES)	CONTAINER TYPE	MAJOR SPECIES GROWN
PRIVATE	M. MEAN RESOURCES 624 CEDAR ST. NORTH, TIMMINS, ONT., P4N 6K4 705-264-2049/8634 M. MEAN	HEATED	401	-	1983 - 400 1984 - 400 1985 - 400 1986 - 400	PAPPT 408 JP	100%
PRIVATE	MILLSON FORESTRY SERVICE, R.R. 1 TIMMINS, ONT., 705-752-4836 D. MILLSON	HEATED	1 605	498	1983 - 405 1984 - 405 1985 - 405 1986 - 405	PAPPT 408 JP	100%
PRIVATE	NORTH GRO DEVELOPMENT LTD., 75 GOVERNMENT ROAD WEST, KIRKLAND LAKE, ONT., P2N 2E6 705-567-5646 A.S. AIDELBAUM	HEATED	2 890	-	1983 - 1 693 1984 - 1 935 1985 - 1 935 1986 - 1 935	PAPPT 408 BS	100%
PRIVATE	NORTHERN GREENHOUSE FARMS LTD., BOX 1160, TIMMINS, ONT., P4N 5X4 705-264-9521 R.J. DELUCE	HEATED	2 669	-	1983 - 3 568 1984 - 3 568 1985 - 3 568 1986 - 3 568	PAPPT 408 BS JP	50% 50%
PRIVATE	RIVERSIDE NURSERY, (*) R.R. 2, DEVILIN, ONT., POM 1C6 807-486-3421 M. MUTZ	HEATED	371	407	1983 - 1984 - 1985 - 1986 -	SP/LE 6 JP	100%
(*) NOT CONTRACTED FOR 1983 - 1986.							
PRIVATE	TAMARAC NURSERIES, R.R. 2, DRYDEN, PSN 2V6 807-937-6621 D. LICK S. LICK D. LICK	HEATED	722	598	1983 - 1 200 1984 - 1 200 1985 - 1 200 1986 - 1 200	SP/LE 6 JP BS	50% 50%
PRIVATE	WALSH NURSERY LTD., KEMPTVILLE, ONT., KOC 1J0 613-258-2383 I. WALSH	HEATED UNHEATED	280 280	400	1983 - 600 1984 - 600 1985 - 600 1986 - 600	MULTI 1 EMP	100%
PRIVATE	WELLAIR CONCEPTS INC., BOX 339, EAR FALLS, ONT., POV 1T0 204-489-2604 F. WIESINGER	HEATED	1 649	984	1983 - 3 150 1984 - 3 150 1985 - 3 150 1986 - 3 150	SP/LE 6 JP BS	50% 50%

PROVINCE OF ONTARIO
CONTAINER STOCK PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	PRODUCTION AREA (TYPE)	AREA AVAILABLE FOR PRODUCTION (SQ. M.)	SHIPPABLE TREES 1980 ('000 TREES)	1981	1982	PLANNED PRODUCTION 1983-1986 ('000 TREES)	CONTAINER TYPE	MAJOR SPECIES GROWN
PROVINCE	DRYDEN TREE NURSERY, BOX 90, MABINGOON, ONT., POV 2M0 807-938-6326 T. MYLAND	HEATED	2 233	4 000	4 000	4 251	1983 - 4 000 1984 - 4 000 1985 - 4 000 1986 - 4 000	SP/LE 6	BS 86% JP 14%
PROVINCE	G. HOWARD FERGUSON FOREST STN., MINISTRY OF NATURAL RESOURCES, R.R. 4 KEMPVILLE, ONT., KOC 1G0 613-258-3413 A.J. CAMPBELL	HEATED UNHEATED SHELTERHOUSE	900 300 1 200	350	400	400	1983 - 600 1984 - 600 1985 - 600 1986 - 600	MULTI 1	EMP 63% L 28% RP 5% OCN 4%
PROVINCE	SMASTIKA FOREST STATION, MINISTRY OF NATURAL RESOURCES, BOX 129 SMASTIKA, ONT., POB 170 705-642-3255 L.J. FORCIER	HEATED	4 250	4 503	4 948	4 494	1983 - 6 000 1984 - 6 000 1985 - 6 000 1986 - 6 000	PAPPT 308, BS 408	BS 100%
PROVINCE	THESSALON NURSERY MINISTRY OF NATURAL RESOURCES, BOX 310, THESSALON, ONT., POR 1L0 705-842-3914 I.E. SEABROOK	HEATED UNHEATED SHADE HOUSES	1 552 2 900 4 783	2 285	3 120	2 845	1983 - 5 000 1984 - 5 000 1985 - 5 000 1986 - 5 000	PAPPT 408	JP 80% EMP 10% RP 10%
PROVINCE	THUNDER BAY FOREST STATION, R.R. 1 THUNDER BAY, ONT., P7C 4T9 807-939-2556 R. KLAPPRAAT	HEATED	1 403	400	960	1 159	1983 - 2 500 1984 - 2 500 1985 - 2 500 1986 - 2 500	SP/LE 6	BS 50% JP 50%

CONTAINER TYPES: SP/LE = SPENCER-LEMAIRE "ROOTTRAINERS"; PAPPT = PAPERPOT; MULTI = CAN-AM MULTIPOT.

Quebec



PROVINCIAL SUMMARY

	bare-root	container
Number of production centres	9	5
Area available for production	283.5 ha	10 999 m ²
Area currently in production	249.9 ha	-
1982 Shippable production ('000)	34 604	5 718
1983 Targeted production ('000)	62 549	13 318

PROVINCE OF QUEBEC
BARE-ROOT PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	AREA AVAILABLE FOR PRODUCTION (HA)	AREA CURRENTLY IN PRODUCTION (HA)	PRODUCTIVE CAPACITY (' 000 TREES)	TREES SHIPPED 1980 - 1981 (' 000 TREES)	PLANNED PRODUCTION 1983 - 1986 (' 000 TREES)	MAJOR SPECIES GROWN
INDUSTRY	COMPAGNIE INTERNATIONALE DE PAPIER DU CANADA, HARRINGTON, QUE., JUV 1J0 819-242-6066 M. RICHARD	4.7	3.1	1 300	470 585 600	1983 - 525 1984 - 525 1985 - 525 1986 - 525	JP RP NS
PROVINCE	BERTHIERVILLE PEPINIERE FORESTIERE DE L'ENERGIE ET DES RESSOURCES, 550 BERTHIERVILLE, QUE., BERTHIERVILLE 514-836-3788 J.P. CAMPAGNA	40(A)	40	6 000	6 017 4 252 7 623	1983 - 8 000 1984 - 8 000 1985 - 8 000 1986 - 8 000	JP BF MS RS SP L RPON OCON
PROVINCE	DUCHESNAY PEPINIERE FORESTIERE DE L'ENERGIE ET DES RESSOURCES, DUCHESNAY, QUE., GOA 3M0 418-875-1352 P. MARINEAU	15	11.4	6 000	1 420 1 205 2 100	1983 - 4 650 1984 - 4 650 1985 - 4 650 1986 - 4 650	NS MS RS RS BF
PROVINCE	GRANDES-PILES PEPINIERE FORESTIERE DE L'ENERGIE ET DES RESSOURCES, GRANDES-PILES, QUE., GOA 1M0 819-538-2055 J.M. FORTIN	47	36	9 000	5 255 2 825 2 285	1983 - 7 650 1984 - 7 650 1985 - 7 650 1986 - 7 650	RS JP OCON
PROVINCE	NORMANDIN PEPINIERE FORESTIERE DE L'ENERGIE ET DES RESSOURCES, NORMANDIN, QUE., GOA 2E0 418-274-2420 J. TREMBLAY	32.3	32.3	9 200	1 717 2 051 1 372	1983 - 7 200 1984 - 7 200 1985 - 7 200 1986 - 7 200	RS MS JP OCON
PROVINCE	STE-LUCE PEPINIERE FORESTIERE DE L'ENERGIE ET DES RESSOURCES, COLEVILLE, QUE., GOA 600 418-739-4819 R. HENLEY	60	60	15 400	5 075 10 983 9 084	1983 - 14 050 1984 - 14 050 1985 - 14 050 1986 - 14 050	RS MS NS RP EMP

PROVINCE OF QUEBEC
CONTAINER STOCK PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	PRODUCTION AREA (TYPE)	AREA AVAILABLE FOR PRODUCTION (SQ. M.)	SHIPPABLE TREES 1980 ('000 TREES)	SHIPPABLE TREES 1981 ('000 TREES)	PLANNED PRODUCTION 1983-1986 ('000 TREES)	CONTAINER TYPE	MAJOR SPECIES GROWN
INDUSTRY	CIE INTERNATIONAL DE PAPIER DU CANADA, HARMINGTON, QUE., JOB 110 819-212-6066 H. RICHARD	HEATED	1 058	915	1 420	2 340	MULTI 2 STYRO 2A	JP BS
INDUSTRY	CONSOLIDATED-BATHURST INC., C.P. 500, GRAND-MERE, QUE., G9T 5L2 819-538-3341 J. CONNAY	HEATED	230	320	320	320	PAPPT 408	BS SP NS
PRIVATE	LES SERRES DE GUYENNE INC., GUYENNE, QUE., JOB 110 819-746-3121 F. MIROU	HEATED	3 438	-	341	2 687	STYRO	BS JP
PRIVATE	CENTRE DE PRODUCTION DE PLANTS FORESTIERS DE QUEBEC INC., 232A, COTE STE ANNE, COE. INC. DE BEAUPRE, QUE., JOB 110 418-827-4696 R. GOHIER	HEATED	-	-	-	1983 - 1984 - 2 200 1985 - 1986 -	IPLCO 45, 67	RS BS NS JP NS ENP RP L
PROVINCE	LE CENTRE DE CULTURE PLANTES RECIPIENTS, MINISTRE DE L'ENERGIE ET DES RESSOURCES, C.P. 819, EAST ANGOIS, QUE., JOB 110 819-832-3431 C. CARRIER	HEATED	6 273	-	2 854	371	MEROU IPLCO	BS

CONTAINER TYPES: MEROU = QUEBEC TUBE, IPLCO = IPL CONTAINER, MULTI = CAN-AM MULTITOP; STYRO = BC/CFS STYROBLOCK; PAPPT = PAPERPOT.
NOTE: FIVE PROVINCIAL NURSERIES ARE PLANNING TO PRODUCE OUTDOOR-GROWN CONTAINER STOCK. PRODUCTION FOR 1985 WILL BE 3 MILLION AND FOR 1986 PRODUCTION WILL BE AN ADDITIONAL 7 MILLION.

New Brunswick

- ▲ bare-root/container production centre
- bare-root production centre
- container production centre



PROVINCIAL SUMMARY

	bare-root	container
Number of production centres	3	9
Area available for production	128 ha	27 164 m ²
Area currently in production	91.5 ha	-
1982 Shippable production ('000)	20 550	27 363
1983 Targeted production ('000)	15 120	37 305

PROVINCE OF NEW BRUNSWICK
BARE-ROOT PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	AREA AVAILABLE FOR PRODUCTION (HA)	AREA CURRENTLY IN PRODUCTION (HA)	PRODUCTIVE CAPACITY ('000 TREES)	TREES SHIPPED 1980 ('000 TREES)	PLANNED PRODUCTION 1983-1986 ('000 TREES)	MAJOR SPECIES GROWN
INDUSTRY	J.D. IRVING LTD., 500 RIVERVIEW, N.B., PO BOX 100, 506-246-5268 J. DAVY	100	65	15 000	11 840 9 445 10 250	1983 - 10 000 1984 - 10 000 1985 - 10 000 1986 - 10 000	BS WS JP RP L ZNP
INDUSTRY	J.D. IRVING LTD., R.R. 4, N.B., SUSSEX, 206 1P6 506-433-4253/5844 H. KUNZE	2	.5	2 000	- 576 -	1983 - 1984 - 1985 - 1986 -	JP RP L
PROVINCE	PROVINCIAL FOREST NURSERY, N.B. NATURAL RESOURCES, R.R. 6 FREDERICTON, N.B., 238 4X7 506-455-6989 P.A. CLARK M.H. KREIBERG	26	26	7 000	10 500 6 700 10 300	1983 - 5 000 1984 - 5 000 1985 - 5 000 1986 - 5 000	BS RP WS BE JP

PROVINCE OF NEW BRUNSWICK
CONTAINER STOCK PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	PRODUCTION AREA (TYPE)	AREA AVAILABLE FOR PRODUCTION (SQ. M.)	SHIPPABLE TREES 1980 ('000 TREES)	1981	1982	PLANNED PRODUCTION 1983-1986 ('000 TREES)	CONTAINER TYPE	MAJOR SPECIES GROWN
INDUSTRY	FRASER INC., FOREST TREE NURSERY, P.O. BOX 100, ST. JOHN'S-DE-MADAWASKA, N.B., E0L 1P0 506-719-2092 E. DESCHÊNES	UNHEATED SHADE UNSHADED	3 600 7 200 10 800	6 500	6 400	6 100	1983 - 7 500 1984 - 7 500 1985 - 7 500 1986 - 7 500	MULTI 1	BS MS 10%
INDUSTRY	GEORGIA-PACIFIC CORP., P.O. BOX 4, ST. JOHN'S, N.B., E0L 1P0 506-466-2770 B. FRASER	HEATED OPEN HOLDING	1 000 1 700	1 200	1 200	700	1983 - 750 1984 - 750 1985 - 750 1986 - 750	STYRO 2,4	L BS JP 44% 28% 28%
INDUSTRY	J.D. IRVING LTD., JUNIPER TREE NURSERY, BOX 150, ST. JOHN'S, N.B., E0L 1P0 506-466-2268 J. DAVENPORT	HEATED UNHEATED OPEN HOLDING	1 100 1 100 4 360	920	1 318	1 817	1983 - 2 000 1984 - 2 000 1985 - 2 000 1986 - 2 000	STYRO 4,8 MULTI 2	JP BS L 90% 5% 5%
INDUSTRY	J.D. IRVING LTD., SUNSET BOX 150, ST. JOHN'S, N.B., 506-433-4253/5844 H. KURZE	HEATED SHELTERHOUSE OPEN HOLDING	1 000 3 100 10 000	666	1 703	1 566	1983 - 1 055 1984 - 1 055 1985 - 1 055 1986 - 1 055	STYRO 4,8 MULTI 2 RIGIP 110	JP BS L 90% 5% 5%
INDUSTRY	NSIP LTD., BOX 150, ST. JOHN'S, N.B., E0L 1P0 506-684-2228 E. COOPER	HEATED SHADE AREA	1 000 1 700	2 248	1 923	1 550	1983 - 1984 - 1985 - 1986 -	STYRO 2A, MULTI 2	BS JP RS MS X 74% 11% 19% 4% 2%
INDUSTRY	VALLEY FOREST PRODUCTS, BOX 1000, BACCHANIC, N.B., E0H 1P0 506-425-8821 B. HICKS	HEATED OPEN HOLDING	640 300	500	500	500	1983 - 500 1984 - 500 1985 - 500 1986 - 500	MULTI 2	JP 100%
PROVINCE	KENT FOREST NURSERY, P.O. BOX 65, BACCHANIC, N.B., E0H 1P0 506-425-1356 M. CORRIER	HEATED HOLDING (WITH WINDBREAK)	2 652 1 490	5 000	7 700	5 230	1983 - 5 000 1984 - 7 500 1985 - 7 500 1986 - 7 500	PAPPT 408	JP BS 50% 50%

PROVINCE OF NEW BRUNSWICK
CONTAINER STOCK PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	PRODUCTION AREA (TYPE)	AREA AVAILABLE FOR PRODUCTION (SQ. M.)	SHIPPABLE TREES 1980 ('000 TREES)	1981 ('000 TREES)	1982 ('000 TREES)	PLANNED PRODUCTION 1983-1986 ('000 TREES)	CONTAINER TYPE	MAJOR SPECIES GROWN
PROVINCE	MADRAM FOREST NURSERY, N.B. NATURAL RESOURCES, BOX 170, BATHURST, N.B., 426-334-7235 V. CARRIER	HEATED HOLDING (WITH WINDBREAK)	2 652 3 600	5 000	6 000	5 900	1983 - 7 500 1984 - 6 000 1985 - 6 000 1986 - 6 000	PAPPT 408	JP BS 50%
PROVINCE	PROVINCIAL FOREST NURSERY, N.B. NATURAL RESOURCES, R.R. 6, FREDERICTON, N.B., E3B 4X7 506-455-6989 P.A. CLARK N.H. KREIBERG	HEATED UNHEATED OPEN HOLDING HOLDING (WITH WINDBREAK)	6 420 6 000 12 100 18 500	7 000	6 300	4 000	1983 - 13 000 1984 - 13 000 1985 - 13 000 1986 - 13 000	PAPPT 408 MULTI 3 STYRO	JP BS 50%

CONTAINER TYPE: MULTI = CAN-AM MULTIPOT, STYRO = BC/CFS STYROBLOCK, RICIP = RICIPOT, PAPPT = PAPERPOT.

Nova Scotia



PROVINCIAL SUMMARY

	bare-root	container
Number of production centres	2	7
Area available for production	72 ha	18 624 m ²
Area currently in production	51 ha	-
1982 Shippable production ('000)	4 100	9 650
1983 Targeted production ('000)	5 000	9 591

PROVINCE OF NOVA SCOTIA
BARE-ROOT PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	AREA AVAILABLE FOR PRODUCTION (HA)	AREA CURRENTLY IN PRODUCTION (HA)	PRODUCTIVE CAPACITY (' 000 TREES)	TREES SHIPPED 1980 1981 1982 (' 000 TREES)	PLANNED PRODUCTION 1983-1986 (' 000 TREES)	MAJOR SPECIES GROWN
PROVINCE	PROVINCIAL FOREST NURSERY, N.S. LANDS & FORESTS, BOX 130, LAWRENCEVILLE, N.S., BOX 140 902-584-2234 R. MINARD	27	27	8 000	2 700 6 500 4 100	1983 - 3 500 RP 1984 - 3 500 RS 1985 - 3 500 BF 1986 - 3 500 NS MS BS JP	28% 28% 14% 11% 9% 7% 3%
PROVINCE	STRATHCORNE FOREST NURSERY, N.S. LANDS & FORESTS, BOX 45 YVERNESS, N.S., BOX 140 902-258-2626 B.F. WHITE	45	24	5 000	- - -	1983 - 1 500 BS 1984 - 1 500 MS 1985 - 1 500 RP 1986 - 1 500 EMP	50% 25% 15% 10%

PROVINCE OF NOVA SCOTIA
CONTAINER STOCK PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	PRODUCTION AREA (TYPE)	AREA AVAILABLE FOR PRODUCTION (SQ. M.)	SHIPPABLE TREES 1980 ('000 TREES)	1981 1982	PLANNED PRODUCTION 1983-1986 ('000 TREES)	CONTAINER TYPE	MAJOR SPECIES GROWN
FEDERAL	SPRINGHILL TREE NURSERY, CORRECTION SERVICE, CANADA, BOX 2140 SPRINGHILL, N.S., BOX 1X0 902-597-3755 (EXT. 324) P. BOURQUE	HEATED UNHEATED OPEN HOLDING	1 712 1 784 16 000	908	2 23	2 104 1983 - 1 561 1984 - 2 634 1985 - 3 125 1986 - N/A	MULTI 2 NISUL	BS MS RS RP BS 30% 25% 70% 15% 10%
INDUSTRY	BONATER MERSEY PAPER CO. LTD., BOX 1150 LIVERPOOL, N.S., BOX 1X0 902-354-5962 M. JOURNEAY	HEATED SHELTERHOUSE OPEN HOLDING	500 500 250	30	450	450 1983 - 600 1984 - 600 1985 - 600 1986 - 600	MULTI 2	RS 100%
PRIVATE	MORRISON'S GREENHOUSES, R.R. 1, FOR, N.S., BOX 1X0 902-796-9371 L. MORRISON	HEATED UNHEATED OPEN HOLDING	1 395 1 395 4 600	1 905	1 910	1 930 1983 - 1 930 1984 - 1 930 1985 - 1 930 1986 - 1 930	MULTI 2	BS BF 98% 2%
PRIVATE	WESTERNK'S FOREST NURSERY, R.R. 1 ST. ANDREW'S, N.S., BOX 1X0 902-851-3588 C. WESTERNK	UNHEATED OPEN HOLDING	2 403 4 806	2 000	2 000	2 000 1983 - 2 000 1984 - 2 000 1985 - 2 000 1986 - 2 000	MULTI 2	BS NS RP BF 70% 10% 10% 10%
PROVINCE	PROVINCIAL FOREST NURSERY, N.S. LANDS & FORESTS, BOX 130 LAWRENCEVILLE, N.S., BOX 1X0 902-284-2234 R. MINARD	HEATED UNHEATED OPEN HOLDING	620 270 10 000	100	100	500 1983 - 700 1984 - 700 1985 - 700 1986 - 700	MULTI 2	BS BF 50% 50%
PROVINCE	STRATHORNE FOREST NURSERY, N.S. LANDS & FORESTS, BOX 489 INVERNESS, N.S., BOX 1X0 902-258-2626 B.F. WHITE	HEATED OPEN HOLDING	4 700 10 000	-	-	- 1983 - 1 100 1984 - 1 600 1985 - 1986 -	MULTI 2	BS MS 50% 50%
PROVINCE	WITTENBURG FOREST NURSERY, N.S. LANDS & FORESTS, BOX 250 STENIACKE, N.S., BOX 1X0 902-478-2152 L. PETERS	HEATED UNHEATED OPEN HOLDING	2 445 1 400 10 000	1 000	500	2 666 1983 - 1 700 1984 - 1 500 1985 - 1 000 1986 - 5 000	MULTI 2	BS 100%

CONTAINER TYPES: MULTI = CAN-AM MULTIPOT; NISUL = NISULA ROLL

Prince Edward Island



- ▲ bare-root/container production centre
- bare-root production centre
- container production centre

PROVINCIAL SUMMARY

	bare-root	container
Number of production centres	1	1
Area available for production	20 ha	3 717 m ²
Area currently in production	2 ha	-
1982 Shippable production ('000)	176	1 633
1983 Targeted production ('000)	400	1 000

PROVINCE OF PRINCE EDWARD ISLAND
BARE-ROOT PRODUCTION CENTRES

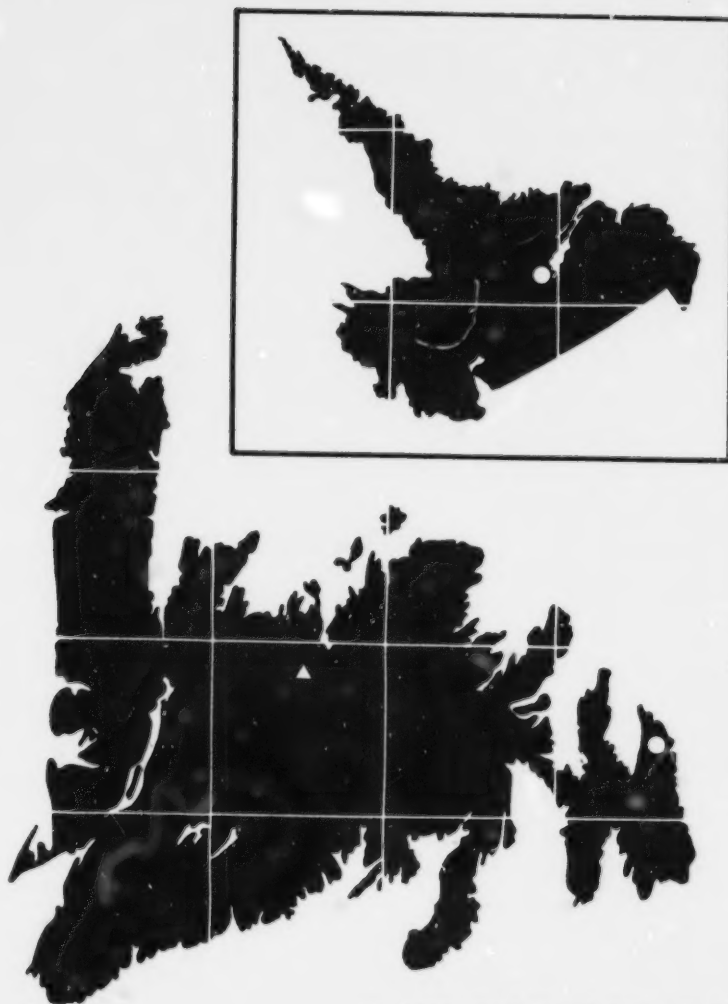
OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	AREA AVAILABLE FOR PRODUCTION (HA)	AREA CURRENTLY IN PRODUCTION (HA)	PRODUCTIVE CAPACITY ('000 TREES)	TREES SHIPPED 1980 1981 1982 ('000 TREES)	PLANNED PRODUCTION 1983-1986 ('000 TREES)	MAJOR SPECIES GROWN
PROVINCE	J. F. GAUDET, FOREST NURSERY, P.E.I. ENERGY & FORESTRY, BOX 2000 CHARLOTTETOWN, P.E.I., C1A 7M8 902-892-0228 M. BUTLER	20	2	5 000	- 60 176	1983 - 1984 - 1985 - 1986 -	RP 45% BS 35% MS 9% BF 9% FO 2%

PROVINCE OF PRINCE EDWARD ISLAND
CONTAINER STOCK PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	PRODUCTION AREA (TYPE)	AREA AVAILABLE FOR PRODUCTION (SQ. M.)	SHIPPABLE TREES 1980 ('000 TREES)	1982	PLANNED PRODUCTION 1983-1986 ('000 TREES)	CONTAINER TYPE	MAJOR SPECIES GROWN
PROVINCE	J.F. GAUDET, FOREST NURSERY, BOX 1000, ENERGY & FORESTRY, CHARLOTTETOWN, P.E.I., C1A 7N8 902-892-0228 M. BUTLER	HEATED SHADE AREA	3 717 4 200	1 135	1 153	1 633	SP/LE 5,6 MULTI 3	BS WS JP EL 37% 24% 31% 8%

CONTAINER TYPES: SP/LE = SPENCER-LEMAIRE "ROOTRAINERS"; MULTI = CAN-AM MULTIPOT.

Newfoundland



- ▲ bare-root/container production centre
- bare-root production centre
- container production centre

PROVINCIAL SUMMARY

	bare-root	container
Number of production centres	1	3
Area available for production	40 ha	3 204 m ²
Area currently in production	40 ha	-
1982 Shippable production ('000)	2 243	1 627
1983 Targeted production ('000)	2 300	3 800

PROVINCE OF NEWFOUNDLAND
BARE-ROOT PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	AREA AVAILABLE FOR PRODUCTION (HA)	AREA CURRENTLY IN PRODUCTION (HA)	PRODUCTIVE CAPACITY ('000 TREES)	TREES SHIPPED 1980 1981 1982 ('000 TREES)	PLANNED PRODUCTION 1983-1986 ('000 TREES)	MAJOR SPECIES GROWN
PROVINCE	DEPT. OF FOREST RESOURCES AND LANDS NURSERY, BOX 616 GRAND FALLS, Nfld., ASH 1C0 709-489-3012 T. McDONOUGH	40	40	9 000	151 1 165 2 243	1983 - 2 300 1984 - 3 800 1985 - 9 000 1986 - 9 000	BS 100%

PROVINCE OF NEWFOUNDLAND
CONTAINER STOCK PRODUCTION CENTRES

OWNERSHIP	MAILING ADDRESS PHONE NUMBER SUPERVISOR	PRODUCTION AREA (TYPE)	AREA AVAILABLE FOR PRODUCTION (SQ. M.)	SHIPPABLE TREES 1980 ('000 TREES)	SHIPPABLE TREES 1981 ('000 TREES)	SHIPPABLE TREES 1982 ('000 TREES)	PLANNED PRODUCTION 1983-1986 ('000 TREES)	CONTAINER TYPE	MAJOR SPECIES GROWN
PROVINCE	DEPT. OF FOREST RESOURCES AND LANDS NURSERY, BOX 370, GOOSE BAY, NFLD., AOP 1C0 709-896-3405 B. ROBERTS	HEATED	350	155	152	150	1983 - 600 1984 - 600 1985 - 600 1986 - 600	MULTI 1	BS 50% MS 50%
PROVINCE	DEPT. OF FOREST RESOURCES AND LANDS NURSERY, BOX 616, GRAND FALLS, NFLD., AOP 1C0 709-489-3012 C. McDONOUGH	HEATED	2 296	470	944	1 277	1983 - 3 000 1984 - 3 000 1985 - 3 000 1986 - 3 000	SP/LE 5	BS 100%
PROVINCE	DEPT. OF FOREST RESOURCES AND LANDS NURSERY, BOX 127, WILKESVILLE, NFLD., AOP 1C0 709-568-8334 M. BENSON	HEATED	558	200	200	200	1983 - 200 1984 - 200 1985 - 200 1986 - 200	MULTI 1	MS 100%

CONTAINER TYPES: MULTI = CAN-AM MULTIPOT; SP/LE = SPENCER-LEMAIRE "ROOTRAINERS"

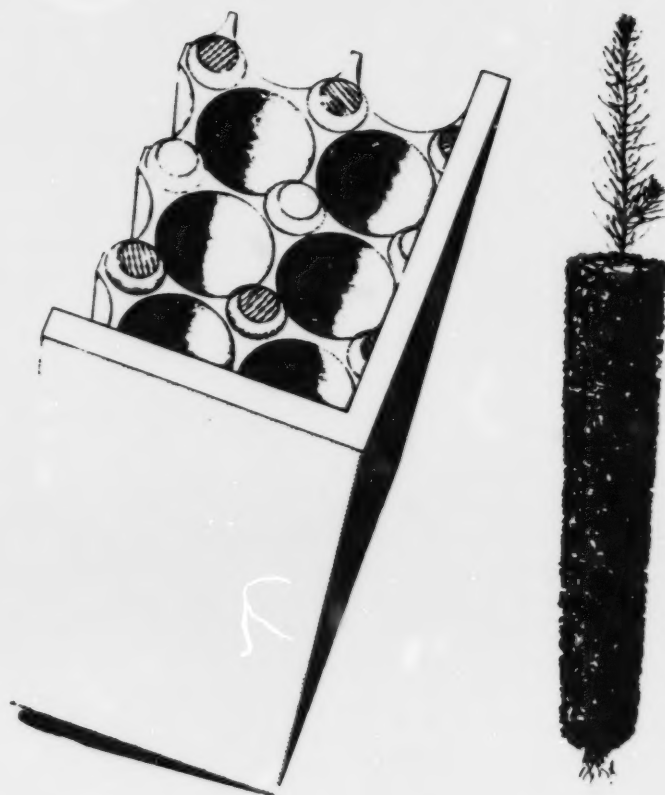


APPENDICES



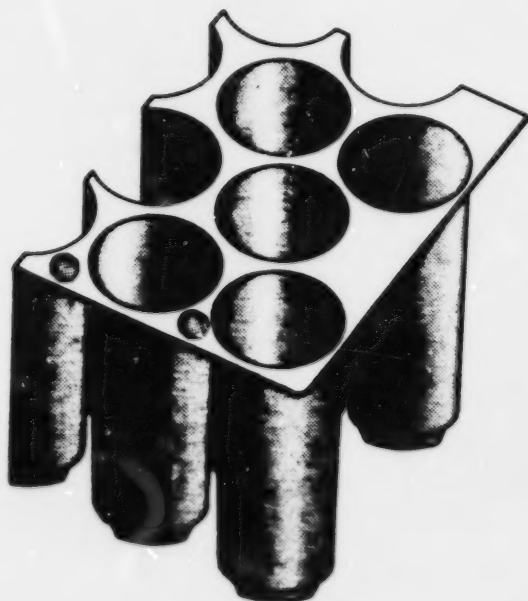
APPENDIX 1

MAJOR CONTAINER TYPES USED IN THE PRODUCTION OF FOREST TREE SEEDLINGS IN CANADA



BC/CFS STYROBLOCK (STYRO)

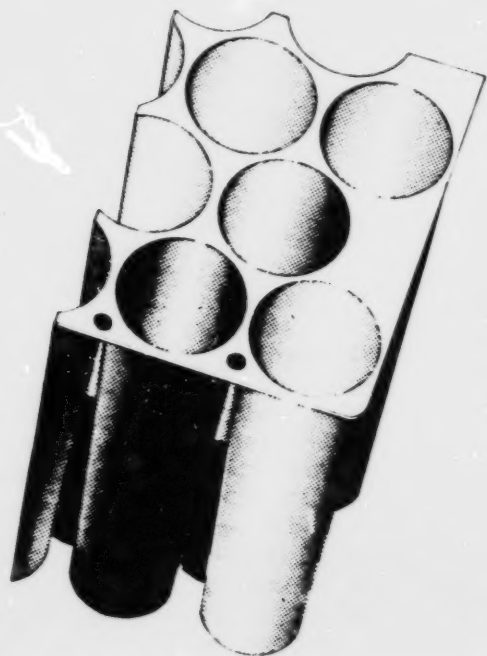
The BC/CFS Styroblock is a rectangular block, molded from expanded polystyrene beads, with round, tapered cavities and ribs to control root spiraling. A variety of sizes is available. The increasingly popular Styroblock 4 has 160 cavities, each with an approximate volume of 60 cm^3 (4 cu in.). Cavities are 4.9 cm (2 in.) in diameter at the top and are 12.5 cm (5 in.) in depth. The blocks are 60 x 35 cm (24 x 14 in.).



CAN-AM MULTIPOTS (MULTI)

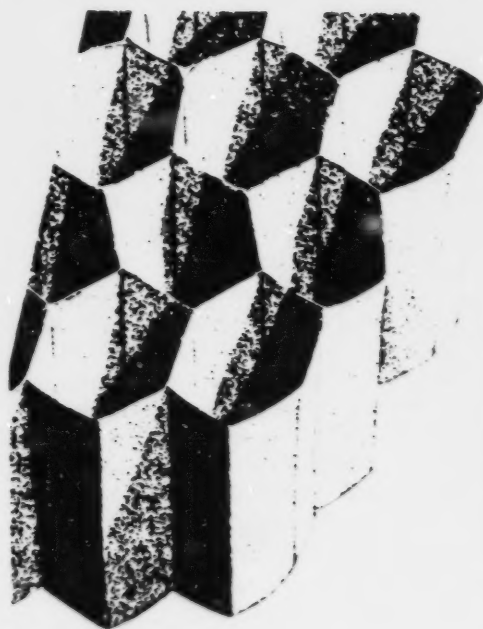
The Can-Am Multipot consists of a durable molded plastic tray available in a variety of sizes. The cavities are slightly tapered and have ribs to control root spiraling. The Multi-Pot #2 which is gaining wider acceptance has 67 cavities, each with a plug volume of 65 cm^3 (4 cu in.). The tray size is 355 x 222 x 120 mm (14 x 8.75 x 4.75 in.).

APPENDIX 1 (continued)



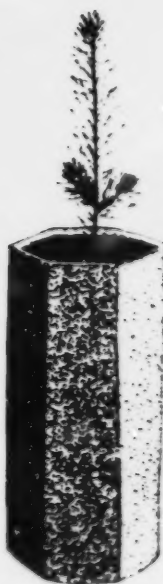
IPL CONTAINERS (IPLCO)

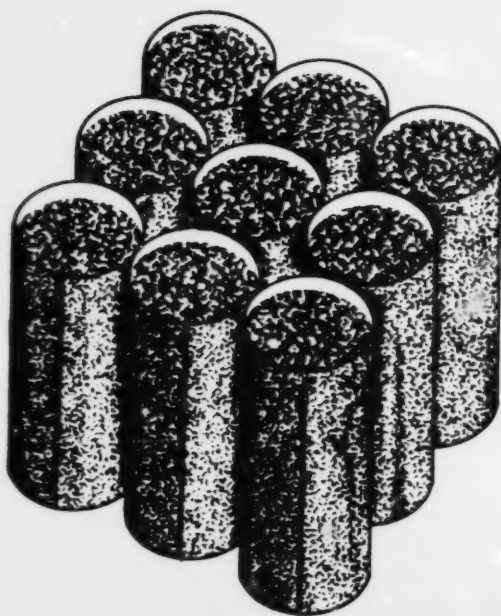
The IPL Rigi-Pots consist of multi-cavity trays of high-density polyethylene. In widest use is the 67-50 model which has 67 cavities, each with a plug volume of 55 cm^3 (3.4 cu in.) and overall dimensions of $354 \times 218 \times 89 \text{ mm}$ (14 x 8.6 x 3.5 in.).



JAPANESE PAPERPOTS (PAPPT)

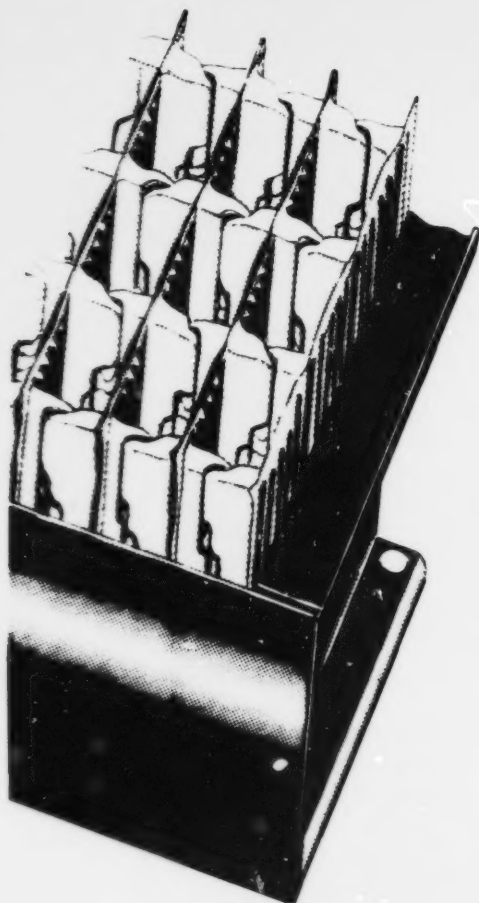
The biodegradable Japanese paperpot container is made from pulp and various quantities of the artificial fibre Vinylon. The breakdown time of the paper is determined by the percentage of the artificial fibre content. A water-insoluble glue bonds individual tubes which are laterally attached with a water-soluble adhesive to produce the characteristic "honeycomb" sets. Sets are available in a wide variety of sizes. The popular '408' set opens to fit a tray $35 \times 94 \text{ cm}$ (14 x 37 in.) and contains 336 cavities, each with a volume of 70 cm^3 (4.2 cu in.).





QUEBEC TUBES (MERQU)

This system, recently developed by the Ministère de l'Energie et des Ressources du Québec, has containers wrapped with ordinary paper over a thin internal layer of polyethylene. The containers, packed into sets of 48, have a volume capacity of 115 cm³ (7 cu in.). Research is continuing to develop a paper with improved biodegradable properties.



SPENCER-LEMAIRE ROOTRAINERS (SP/LE)

The Spencer-Lemaire system produces several plug seedlings in a heat-molded plastic "book", the sides of which are ribbed to prevent root spiraling. The more popular "Ferdinand" tray size contains 17 "books", each with 6 cavities and an individual volume of 40 cm³ (2.4 cu in.). The overall tray size is 22 x 37 cm (8.7 in. x 14.6 in.). A variety of suitable sizes is available.



APPENDIX 2

MAJOR TREE SPECIES REARED IN CANADA'S FOREST TREE NURSERIES

Common name	Botanical name	Symbol
CONIFEROUS SPECIES		CON
Pine	<i>Pinus</i> L.	P
Eastern white pine	<i>Pinus strobus</i> L.	EW P
Red pine	<i>Pinus resinosa</i> Ait.	RP
Jack pine	<i>Pinus banksiana</i> Lamb.	JP
Lodgepole pine	<i>Pinus contorta</i> Dougl.	LP
Scots pine	<i>Pinus sylvestris</i> L.	SP
Larch	<i>Larix</i> Mill.	L
Western larch	<i>Larix occidentalis</i> Nutt.	WL
European larch	<i>Larix decidua</i> Mill.	EL
Spruce	<i>Picea</i> A. Dietr.	S
White spruce	<i>Picea glauca</i> (Moench) Voss	WS
Engelmann spruce	<i>Picea engelmannii</i> Parry	ES
Red spruce	<i>Picea rubens</i> Sarg.	RS
Black spruce	<i>Picea mariana</i> (Mill.) B.S.P.	BS
Norway spruce	<i>Picea abies</i> (L.) Karst.	NS
Hemlock	<i>Tsuga</i> (Endl.) Carr.	H
Western hemlock	<i>Tsuga heterophylla</i> (Raf.) Sarg.	WH
Douglas-fir	<i>Pseudotsuga menziesii</i> (Mirb.) Franco	DF
Fir	<i>Abies</i> Mill.	F
Balsam fir	<i>Abies balsamea</i> (L.) Mill.	BF
Amabilis fir	<i>Abies amabilis</i> (Dougl.) Forbes	AF
Arbor-vitae	<i>Thuja</i> L.	C
Eastern white cedar	<i>Thuja occidentalis</i> L.	EW C
Western red cedar	<i>Thuja plicata</i> Donn	WRC
OTHER CONIFEROUS SPECIES		OCON
DECIDUOUS SPECIES		DEC
Poplar	<i>Populus</i> L.	PO
Black walnut	<i>Juglans nigra</i> L.	WA
OTHER DECIDUOUS SPECIES		ODEC
MISCELLANEOUS SPECIES		X

Source: Bonnor, G.M. 1978. A guide to Canadian forest inventory terminology and usage. Dep. Environ., Can. For. Serv., Ottawa, Ont. 2nd ed.